## CLAIMS AMMENDMENTS

Claim 1 (Currently ammended) What we claim as our invention is:

A continuous flow psychrophilic anaerobic digester, micro-filtration integrated aquaculture waste treatment system comprised of:

- a. an anaerobic digester to capture waste, fitted with augers to mix digested slurry with waste stream.
- b. valves to control the flow of effluent to allow sludge to settle before effluent is released.
- c. micro-filter to filter solids and pathogens from effluent d. raquatic plants for filtering of effluent

Claim 2(Current)A system according to claim 1 where valve for effluent is closed before receiving waste stream

Claim 3(current) A system according to claim 1 where waste is mixed daily with augers.

Claim 4 (current) A system according to Claim 1, where waste is allowed to settle atleast eight hours before opening valve to allow effluent to flow out.

Claim 5(current). A system that converts existing manure pits, lagoons, into anaerobic digesters by covering the pit with an airtight diaphram secured to a concrete beam where diaphragm is kept under a negative pressure.

Claim 6 (current)A system according to claim 5 that protects against environmental contamination by removing the danger of the diaphragm being lifted by bio-gasses. , in flodstage

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Claim 7(current)A system according to claim 5 where concrete beam is plumbed to receive waste, to pump off bio-gas, to provide for effluent over-flow, and to remove finished slurry.

Claim 8 (current) A system according to claim 5 where bio-gas is pumped off into storage and an emergency photovoltaic pump located on vent is used during flood stage.

Claim 9(currently ammended)A system of effluent overflow aquatic plant filtering of effluent the system comprised of:

- a. a. canal adjacent to digester
- b. canal is lined and covered with a greenhouse

## c. an overhead conveyor harvester

Claim10 (current)A system according to claim 9 where canal is lined to prevent ground water contamination.

Claim 11(withdrawn)A system according to claim9 where nutrient rich effluent flows into 1 end of canal and purified water out other end.

Claim 12(withdrawn)A system according to claim 9 that removes nutrients and antibiotics by filtering with the use of aquatic pakts.

Claim 13(withdrawn) A system according to claim 9 where green-house is used to prevent the spread of aquatic plants into ecosystem Claim 14 (withdrawn) A system according to claim 9 where green-



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HOUSE

house is used to protect aquatic plants from climate. 70 12003 Claim 15 (withdrawn) A system according to claim 9 where 1200 harvester is suspended from green house to harvest aquatic plants. Claim 16(withdrawn) A system according to claim 9 where harvester is of a conveyor type system.

Claim17(withdrawn) Asystem according to claim 12 where aquatic plants used as feed decreases the amount of antibiotics administered to animals.